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MINING

Statistical Report
1984



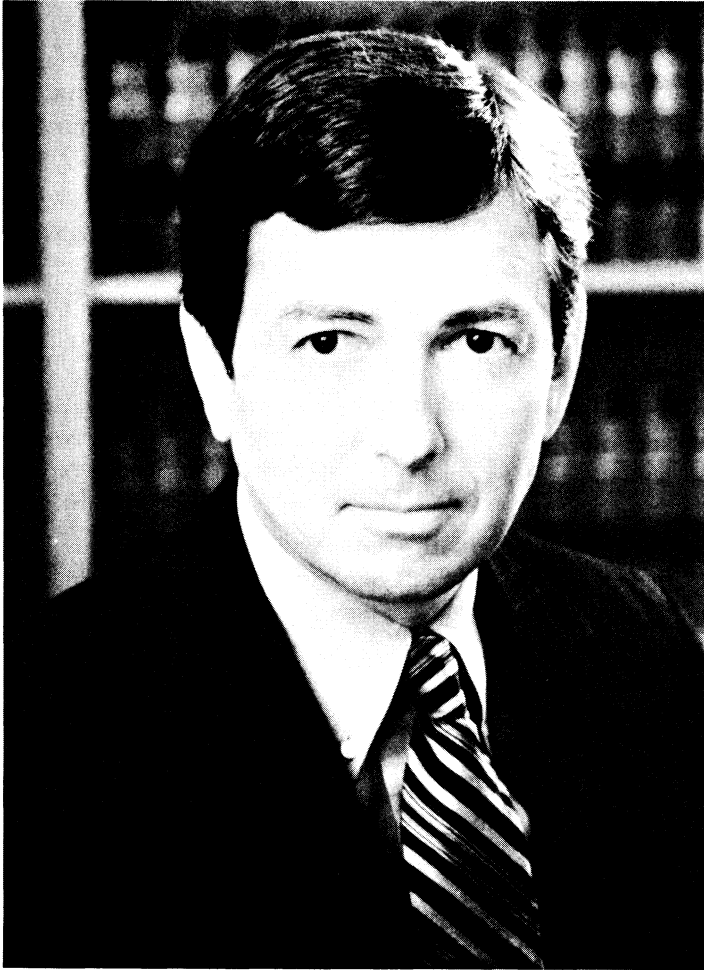
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State of Missouri
Division of Labor Standards
Department of
Labor and Industrial Relations

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JOHN ASHCROFT
Governor

Foreword

Overall, Missouri Mineral Production in 1984 did not improve as much as it appeared it might in late 1983 and early 1984. Five of the nine mineral commodities inspected by this department, showed a decrease for 1984, due in part to labor strikes and foreign trade.

Our 1984 safety record indicates no fatal accidents in mines inspected by this department. The metal mining industry had an incident rate of 1.85. We believe this led the nation for 1984.

For Coal, Clay and Shale, our records are incomplete, due to the closing of several mines and failure of some operators to submit manhours and accident records. We feel the incident rates of these commodities are below the national average.

Our Mine Safety Training Section trained 3,721 miners in 1984. All of this training was accomplished by three full-time instructors and one inspector who does all the mine rescue training.

Our department wishes to thank the mining industry for assisting us in making Missouri mines a safe place to work.

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Missouri Minerals Production

Kind of Mines	Tons Produced	
	1983	1984
Clay	659,192	841,605
Coal	5,249,461	6,810,336
Copper	13,542	9,264
Granite (Felsite)	330,341	315,825
Iron	877,033	1,506,237
Lead	638,473	433,929
Shale	822,880	864,916
Silica Sand	713,490	692,544
Zinc	122,142	93,397

Concentrates—Lead—Zinc—Copper—Iron—Pellets

Clay

Clay production in Missouri in 1984 showed an increase of 182,413 tons compared in 1983.

Leading Clay Producers in 1984

Operators	Tons Produced
Lowe's Southern Clay	160,971
A. P. Green	150,685
River Cement	143,063
Allied Chemical	68,137
Mantle Mining	54,575
Southern Clay, Inc.	41,914

1975-1984 Clay Production

Year	Tons Produced
1975	1,388,155
1976	1,403,983
1977	1,174,857
1978	1,235,744
1979	1,278,876
1980	1,074,509
1981	836,959
1982	649,613
1983	659,192
1984	841,605

Clay

Operator	# Employed	Tonnage
A. D. Willis & Son	0	41
Allied Chemical Co.	5	68,137
Alsey Refractories Co.	4	23,883
A. P. Green	0	150,685
C. E. Refractories Co.	3	15,094
Deeker Mining Co.	5	39,362
Dillon Clay Mining Co.	6	26,741
Elton Hensley Mining Co.	1	6,680
Forest Johnson Clay Co.	5	15,614
Harbison—Walker	5	39,370
Joe Gilliam Mining Co.	3	15,154
Kasten Clay Products	2	18,084
Langenberg Mining Co.	4	22,236
Lowe's Southern Clay	96	160,971
Mantle Mining Co.	4	54,575
River Cement Co.	25	143,063
Southern Clay, Inc.	13	41,914

Coal

Coal production for 1984 showed an increase of 1,560,875 tons compared to 1983.

1984 Leading Coal Producing Counties

Randolph	3,544,415
Henry	692,502
Bates	684,492
Barton	515,922
Howard	489,516

1984 Leading Coal Producing Companies

Associated Electric Corp., Inc.	2,000,460
N.E.M.O. Coal Co.	1,144,851
Peabody Coal Co.	692,502

Counties With Most Men Employed In 1984

Randolph	686
Bates	175
Vernon	140
Henry	136
Howard	97

1975-1984 Coal Production

Year	Tons Produced
1975	5,669,671
1976	6,167,524
1977	6,626,940
1978	5,843,073
1979	6,487,445
1980	5,502,523
1981	5,242,031
1982	5,778,223
1983	5,249,461
1984	6,810,336

Coal

Operator	# Employed	Tonnage
Associated Electric Corp., Inc.	371	2,000,460
Bill's Coal Co.	84	282,181
Burbridge Coal Co.	31	159,460
Central West Coal Corp.	56	176,246
Howard County Coal Co.	35	123,345
Missouri Leasing & Investment Co.	8	35,886
Missouri Mining Inc.	37	42,614
Moniteau Valley Mine, Inc.	2	9,750
NEMO Coal Co.	205	1,144,851
Peabody Coal Co.	136	692,502
Pittsburg & Midway Coal Co. (Midway Mine)	75	515,922
Universal Coal & Energy Co.		
Pittsburg & Midway Coal Co.	175	684,492
Universal Coal & Energy Co.	60	356,421
Wyoming Fuel (Tri-County Mine)	41	187,102
Yates Energy & Development Co.	110	399,104

Coal Production By County

County	Tons Produced	Fatal Accidents
Bates	684,492	0
Barton	515,922	0
Cooper	35,886	0
Henry	692,502	0
Howard	489,516	0
Monroe	187,102	0
Putnam	42,614	0
Ralls	159,460	0
Randolph	3,544,415	0
Vernon	458,427	0

Iron

The 1984 production of Iron showed an increase of 629,204 tons compared to 1983.

1975-1984 Iron Production Record

Year	Tons Produced
1975	2,436,888
1976	2,294,779
1977	2,055,316
1978	717,769
1979	1,188,634
1980	1,439,300
1981	1,100,000
1982	807,094
1983	877,033
1984	1,506,237

Iron

Operator	# Employed	Tonnage
Pea Ridge Iron Ore Co.	326	1,506,237

Lead

Lead production in Missouri for 1984 showed a decrease of 204,545 tons. Zinc showed a decrease of 28,746 tons and Copper showed a decrease of 4,278 tons compared to 1983.

1975-1984 Lead, Zinc and Copper Production Record

Year	Tons Lead Produced	Tons Zinc Produced	Tons Copper Produced
1975	703,970	144,223	27,000
1976	713,185	185,595	22,954
1977	697,417	148,742	31,063
1978	716,126	130,537	23,999
1979	719,553	130,323	31,386
1980	752,060	129,683	26,142
1981	555,776	98,269	15,384
1982	680,310	126,473	11,578
1983	638,474	122,143	13,542
1984	433,929	93,397	9,264

Lead, Zinc and Copper

Operator	Tons Produced Lead	Tons Produced Zinc	Tons Produced Copper	Men Employed
Amax Lead Co.	168,892	40,792		467
Cominco American	99,522	33,107	3,444	132
St. Joe Minerals	165,515	19,498	5,820	242

Shale

The 1984 production of Shale showed an increase of 39,246 tons compared to 1983.

1975-1984 Shale Production Record

Year	Tons Produced
1975	1,051,050
1976	1,172,557
1977	1,276,884
1978	1,290,386
1979	1,353,088
1980	1,144,436
1981	958,652
1982	704,442
1983	825,670
1984	864,916

Shale

Operator	# Employed	Tonnage
Buildex, Inc.	19	92,612
Ceramo Co.	3	10,260
Continental Cement Co.	3	94,778
Dundee Cement Co.	35	601,018
Midland Brick & Tile Co.	2	66,248

Silica Sand

The 1984 production of Silica Sand showed a decrease of 20,947 tons compared to 1983.

1975-1984 Silica Sand Production Record

Years	Tons Produced
1975	702,694
1976	995,049
1977	1,080,200
1978	1,168,894
1979	1,175,214
1980	1,072,951
1981	1,130,395
1982	764,283
1983	713,491
1984	692,544

Silica Sand

Operator	# Employed	Tonnage
Master Bros. Silica Sand	7	32,759
Pennsylvania Glass Sand	55	328,658
River Cement Co.	6	85,076
Unimin Corp.	16	246,051

Granite

Operator	# Employed	Tonnage
G.A.F. Corp.	102	315,060
Missouri Red Quarries, Inc.	10	765

No fatal accidents in Missouri Mines inspected by the Division of Labor Standards in 1984.

Mine Fatalities in Missouri

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1900	52	19	—	71
1901	41	15	—	56
1902	14	10	—	24
1903	13	17	—	30
1904	30	11	—	41
1905	49	11	—	60
1906	58	16	—	74
1907	42	8	3	53
1908	46	10	—	56
1909	65	21	—	86
1910	45	16	—	61
1911	33	8	3	44
1912	28	19	2	49
1913	28	9	4	41
1914	22	19	2	43
1915	41	17	2	60
1916	35	6	2	43
1917	48	14	—	62
1918	16	22	1	39
1919	11	10	1	22
1920	No Report	—	—	—
1921	10	12	—	22
1922	10	6	—	16
1923	9	20	—	29
1924	12	6	—	18
1925	6	11	—	18
1926	11	7	—	18
1927	5	9	1	15
1928	8	11	2	21
1929	2	7	—	9
1930	3	20	3	16
1931	1	6	2	9
1932	2	7	1	10
1933	—	19	2	21
1934	1	13	—	14
1935	2	9	—	11
1936	3	16	1	20
1937	2	14	2	18
1938	5	7	2	14
1939	6	1	—	7
1940	3	7	—	10
1941	4	8	2	14

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1942	6	—	2	8
1943	4	7	2	13
1944	6	4	2	12
1945	6	5	2	13
1946	1	3	2	6
1947	7	3	6	16
1948	2	1	4	7
1949	5	2	5	12
1950	2	1	4	7
1951	2	2	5	9
1952	3	3	4	10
1953	2	—	—	2
1954	—	1	2	2
1955	1	—	2	3
1956	1	—	1	2
1957	3	2	3	7
1958	2	2	3	6
1959	4	—	—	4
1960	—	—	—	0
1961	6	1	—	7
1962	—	—	—	0
1963	—	—	—	0
1964	3	—	—	3
1965	2	—	—	2
1966	1	1	2	4
1967	2	—	—	2
1968	3	—	1	4
1969	2	—	—	2
1970	3	1	—	4
1971	3	1	—	4
1972	2	1	1	4
1973	2	—	4	6
1974	2	—	3	5
1975	—	1	2	4
1976	1	—	—	1
1977	1	—	—	1
1978	—	—	2	2
1979	1	—	—	1
1980	—	—	—	0
1981	1	—	—	1
1982	2	—	—	2
1983	2	1	—	3
1984	—	—	—	0
Total	918	512	101	1,547

Caves

An act of the 63rd General Assembly authorized and directed inspection of all caves held open to the public and to require every cave owner, operator or agent to provide necessary safety guard rails, bridges, ladders, entrances, platforms, walkways, safety barriers, rails, paths and other safety measures in and around any such cave before it may be opened to the public and to file a complete and true map plan of such cave.

It shall be the duty of the Inspection Section to inspect such caves at least once a year. The annual inspection fee will be \$35.

County	Name of Cave	Address
Barry	Crystal Caverns	Cassville, MO
Camden	Ozark Caverns	Osage Beach, MO
Camden	Bridal Cave	Camdenton, MO
Carter	Cave Spring Onyx Caverns	Van Buren, MO
Crawford	Onondago Cave	Leasburg, MO
Franklin	Fisher's Cave	Sullivan, MO
Franklin	Meramec Caverns	Stanton, MO
Greene	Crystal Cave	Springfield, MO
Greene	Fantastic Caverns	Springfield, MO
McDonald	Ozark Wonder Cave	Noel, MO
McDonald	Bluff Dwellers Cave	Noel, MO
McDonald	Truitts Cave	Lanagan, MO
Marion	Cameron Cave	Hannibal, MO
Marion	Mark Twain Cave	Hannibal, MO
Miller	Indian Burial Cave	Osage Beach, MO
Miller	Fantasy World Cavern	Osage Beach, MO
Morgan	Jacob's Cave	Versailles, MO
St. Francois	Bonne Terre Cave	Bonne Terre, MO
Shannon	Devil's Well	Van Buren, MO
Shannon	Round Springs	Round Springs, MO
Stone	Talking Rock Cave	Silver Dollar City, MO
Stone	Marvel Cave	Silver Dollar City, MO
Wayne	Rebel Cave	Silva, MO